

77th Annual Shellfish Conference and Tradeshow

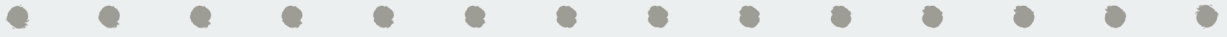
CONFERENCE PROGRAM



September 18-21, 2023
Seaside Civic & Convention Center
Seaside, OR



Schedule at a Glance



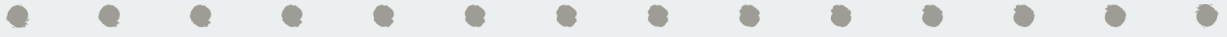
Monday, September 18th

8:30 Schley Golf Scramble

9:00 Pickleball Tournament

1:00 PCSGA Board Meeting **Riverside A & B**

4:30 PCSGA Annual General Meeting **Riverside A & B**



Tuesday, September 19th

Plenary - Pacific Room

9:00 Welcome

11:00 Plenary Panel

12:00 **Opening Luncheon**

Breakout Sessions

Session 1 - Riverside B

2:00 - 4:00 Ocean Conditions

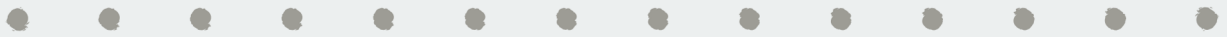
Session 2 - Necanicum

2:00 - 2:45 Social License Workshop

3:15 - 4:00 Social Media Workshop

Session 3 - Riverside A

2:00 - 4:00 Genetics, Genomics
and Broodstock



Wednesday, September 20th

Session 1 - Riverside A

8:30 - 12:30 Policy and Permitting

Session 1 - Necanicum East

2:00 - 3:30 West Coast Federal
Shellfish Research
Update and
Listening Session

3:45 - 4:30 Federal Agency Policy
and Program Updates
and Listening Session

Session 2 - Riverside B

8:30 - 9:00 ECOP Feedback Session

9:00 - 12:00 Conservation
and Restoration
12:00 - 12:30 Lightning Talks

2:00 - 2:30 Outreach
and Education

2:30 - 3:15 Down on the Farm

3:45 - 4:00 Ecosystem and Best
Management Practices

4:15 - 4:30 Shellfish and
Human Health

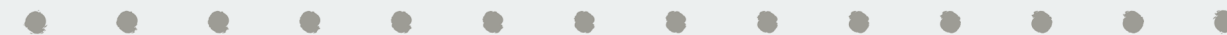
4:30 - 5:00 NANOOS Update

Session 3 - Pacific Room

9:00 - 10:30 USDA Pacific
Shellfish
Research
Unit Session

11:00 - 11:45 **Workshop:** OsHV-1
and The West
Coast Shellfish
Industry

2:00 - 3:30 Beyond Bivalves:
Crab, Seaweed,
and More



Thursday, September 21st

Session 1 - Riverside A

8:45 - 9:30 Labor Issues

9:30 - 10:30 The Nature Conservancy
Program Updates

Session 2 - Riverside B

8:45 - 9:00 Policy/Ecosystem Management

9:00 - 10:30 Integrated Pest Management

Names marked with an * indicate student presenters.

For more information about PCSGA or NSA visit our websites at:
www.pcsga.org - www.shelfish.org

FEATURED SPEAKERS



Carissa E. Maurin, M.S.
Aquaculture Program Manager
Gulf of Maine Research Institute

John Lentz Featured Speaker: Gulf of Maine Research Institute Aquaculture Apprenticeship Program

Carissa Maurin, Aquaculture Program Manager at the Gulf of Maine Research Institute, is working to support the sustainable growth of the aquaculture sector. She works collaboratively with industry leaders, farmers, researchers, the business community, and other nonprofits to identify and pursue opportunities that will secure its healthy future. Her current focus is helping the industry meet rising workforce demands and providing the kinds of business planning and training resources that will lead to long-term profitability, such as the implementation of The Maine Aquaculturist website and the Aquaculture Apprenticeship program.



Emily Whitmore
Main Aquaculture Innovation Center

Working Toward Social License to Operate

Emily Whitmore is a social scientist at the Maine Aquaculture Innovation Center. Most recently, she has been working with on a project with 30 Maine shellfish and seaweed farmers to co-develop a guide to generating social license.

Despite the environmental and economic benefits of aquaculture, public opposition to farm sites has become a significant barrier to growth for the industry. Emily will discuss the important role that social science plays in the sustainable development of aquaculture and will take a deep dive into social license to operate. She will share results from a recent co-created project that resulted in a guide to social license for Maine shellfish and seaweed farmers and talk about how social license can be an important tool for sustainable development.

Monday, September 18th



8:30 Schley Golf Scramble

9:00 Pickleball Tournament

1:00 PCSGA Board Meeting

4:00 **Break**

4:30 PCSGA Annual General Meeting

Gearhart Golf Links

Sunset Empire Park
and Recreation District

Riverside A & B

Riverside A & B

Clam -O-Ramma

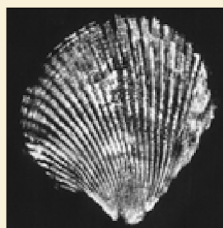


Try your luck at catching a pearl!

Tuesday, Sept. 19th at 5:00

Main Lobby of Convention Center

Come to raise money for the NSA-PCS
Student Fund. Bring your wallet!



Check out new apparel
at NSA table featuring
art by **Nam Siu**. Thank
you, **Jenny Lee** for your
design work.



@spearotaku



Check out new apparel at
PCSGA table featuring art
by Anna Pedersen.



@saltearthstudios

AWARDS BANQUET AND SILENT AUCTION

Pacific Room

Wednesday, Sept. 20th at 6:00 p.m.

Proceeds for PCSGA go to support the Grower Enrichment & Development Fund and the John Lentz Profiles In Innovation Speaker Series. Proceeds for NSA-PCS go to support student involvement in shellfish science through conference attendance.

Tuesday, September 19th

Plenary Session

9:00 Welcome

9:15 John Lentz Featured Speaker: Aquaculture Apprenticeship Program Carissa Maurin, Gulf of Maine Research Institute

10:30 **Break**

11:00 Plenary Panel

12:00 **Opening Luncheon** Featuring a special presentation by the authors of 'Heaven on the Half Shell' Necanicum East & West

Tuesday, September 19th

Ocean Conditions

Riverside Room B, Moderated by: **Liz Toblin**

- 2:00** Response of eastern oysters (*Crassostrea virginica*) and soft shell clams (*Mya arenaria*) repeated hypoxia during heatwaves **Jasmine, Talevi* (Dalhousie University)**, Shelby Clarke, Michael Coffin, Luc Comeau, Takashi Sakamaki and Ramon Filgueira
- 2:15** Exploring adaptation and plasticity to ocean warming in blue mussels (*Mytilus edulis*) from Atlantic Canada **Shelby B. Clarke* (Dalhousie University)**, Tiago Hori, Luc Comeau, and Ramon Filgueira
- 2:30** Examining the impacts of elevated, variable pCO₂ on larval Pacific razor clams (*Siliqua patula*) in Alaska **Marina Alcantar* (University of Alaska Fairbanks)**, Jeff Hetrick, Jacqueline Ramsay, and Amanda Kelley
- 2:45** Environmental Priming for Ocean Acidification: Potential hatchery practices to build resilience for clam aquaculture in the Puget Sound **Larken Root (University of Washington/NOAA)**, Mackenzie Gaverty, Ryan Crim"
- 3:30** **Break**
- 3:15** Potential of the macroalgae dulse (*Devaleraea mollis*) to mitigate effects of ocean acidification on larval Pacific oysters (*Magallana gigas*) in land-based co-culture.
Leah Wessler* (University of British Columbia), Dr. Andrea Frommel, Dr. Jennifer Clark
- 3:30** Recovery from an atmospheric heatwave in Midori and Miyagi strains of the Pacific oyster **Hollis Jones* (University of California, Davis)**, Cassidy Cooper, Anne Todgham
- 3:45** Triploid Pacific oysters exhibit stress response dysregulation and elevated mortality following heatwaves **Matthew George (University of Washington)**, Olivia Cattau, Mollie A. Middleton, Delaney Lawson, Brent Vadopalas, Mackenzie Gaverty, Steven Roberts
- 4:00** Environmental effects on biological characteristics of Pacific oyster *Crassostrea gigas* cultured in the Seto Inland Sea, Japan, from 1990 to 2022 **Yumeng Pang (University of Washington)**, Tsuneo Ono, Takehiro Tanaka

4:30 Tradeshow Reception and NSA Fundraiser

Workshop - Social License

Pacific Room

- 2:00** Social License Workshop Moderated by **Emily Whitmore and Anne Langston (Maine Aquaculture Innovation Center)**

3:00 Break

Workshop - Social Media

Pacific Room

- 3:15** Social Media workshop Moderated by **Cora Hirashiki (Fat Moon Creative)**

4:30 Tradeshow Reception and NSA Fundraiser

A Special Thank You To:



for generously hosting the Hospitality Suite!

Hospitality Suite located at the Ebb Tide Inn in room 200 and open until 10:00 p.m.

Tuesday, September 19th
Genetics, Genomics and Broodstock

Riverside Room A, Moderated by: **Penny Swanson**

- 2:00** Genetic Variation in Growth of Pacific Oysters is Primarily Non-Additive **Dennis Hedgecock (University of Southern California)**, Xiaoshen Yin
- 2:15** Development of an Alternative Sterility Method for Shellfish Aquaculture: Identification of Candidate Genes Involved in Germ Cell Specification **Mackenzie Gavery (NOAA Fisheries - NW Fisheries Science Center)**, Lauren Saunders, Lauren Vandepas, Brent Vadopalas, Adam Luckenbach, Cole Trapnell, Steven Roberts
- 2:30** Shellfish stress and chromosome copies: performance of diploid and triploid oysters under temperature, pH, and dissolved oxygen stress **Craig Norrie (University of Washington)**
- 2:45** Sex determination in Pacific oysters (*Crassostrea gigas*): Translating basic science into more efficient oyster production **Bernarda Calla (USDA-ARS)**, Neil Thompson
- 3:00** **Break**
- 3:15** Coupling in vitro challenge and transcriptomics to investigate mechanisms of eastern oyster apoptotic response to the intracellular parasite *Perkinsus marinus* **Erin M. Witkop (University of Rhode Island)**, Dina P. Proestou, Gary Wikfors, Kathryn Markey-Lundgren, Mary Sullivan, Marta Gomez-Chiarri.
- 3:30** Experimental assesment of POGS YC2023 to OsHV-1 microvar **Neil Thompson (USDA- Pacific Shellfish Research Unit)**, Marni Rem-McGeachy, Will Schoeneck, Darren DeSilva, Nasif Sarowar
- 3:45** Center for Aquaculture Technology Canada (CATC) developed OsHV challenge model to assess family resistance in controlled laboratory condition. **Nasif Sarowar (The Center for Aquaculture Technologies)**
- 4:30** **Tradeshow Reception and NSA Fundraiser**

Wednesday, September 20th

Policy and Permitting

Riverside Room A, Moderated by: **Jenn Allison**

- 8:45** NAHMS: A trusted data oyster with a clam-like formula and statistical mussel helping to meet information needs! **Diana Short (USDA APHIS VS NAHMS)**
- 9:00** A Report on Work By NOAA Fisheries and Partners to Assess and Enhance The Permitting and Regulatory Landscape in Washington State **Jeff Bash (NOAA Fisheries)**
- 9:15** ELAP: Opportunities and Challenges from a National Perspective **Charlie Culpepper (National Aquaculture Association)**
- 9:30** Shellfish Farming and the Endangered Species Act **Amanda M. Carr (Plauché & Carr LLP)**
- 9:45** Legal Issues Impacting Shellfish **Samuel W. (Billy) Plauché (Plauché & Carr LLP)**
- 10:00** Communicating information on ecosystem services provided by shellfish aquaculture into the aquaculture permitting and review process. **Chris Schillaci (NOAA Fisheries)**
- 10:30** **Break**
- 11:15** Washington State Department of Health Commercial Shellfish Enforcement Program Overview **Dani Toepelt, R.S. (WA Dept. of Health)**
- 11:30** An electronic aquaculture production data system for Washington **Chris Eardley (WA Dept. of Fish and Wildlife)**, Bobbi Hudson, Dani Toepelt, David Beugli, Laura Butler, Kim Thompson, Kevin Deckeraph text

Wednesday, September 20th
Policy and Permitting Cont.
Riverside Room A, Moderated by: Jenn Allison

11:45 Public Engagement Toolkit **Kim Thompson (Pacific Coast Shellfish Growers Association)**

12:00 Shellfish Farm Permitting Toolbox **Kelly McDonald (Confluence Environmental Company)**,
Marlene Meaders, Jesse DeNike, Samantha Klein

12:30 **Lunch Break / NSA Luncheon**

West Coast Federal Shellfish Research Update and Listening Session

Necanicum East

2:00 West Coast Federal Shellfish Research Update and Listening Session **NOAA Fisheries and USDA ARS**

3:30 **Break**

Federal Agency Policy and Program Updates and Listening Session

Necanicum East

3:45 Federal Agency Policy and Program Updates and Listening Session **NOAA Fisheries Office of Aquaculture, US Department of Agriculture, National Aquaculture Association**

5:00 **Memorial Social Hour** • Pacific Room

6:00 **Awards Banquet and Silent Auction** • Pacific Room

ECOP Feedback

Riverside Room B, Moderated by: Kim Thompson

8:30 Environmental Codes of Practice (ECOP) Revision Update and Feedback Session **Kim Thompson (Pacific Coast Shellfish Growers Association)**, Samantha Klein, Bobbi Hudson

Conservation and Restoration

Riverside Room B, Moderated by: **Hank Carson**

9:00 A population health approach to monitoring oyster disease in Long Island Sound in support of regional restoration and harvest goals **Meghana P. Parikh (NOAA Fisheries Northeast Fisheries Science Center)**, Mariah L. Kachmar, Stephen Arnott, and Katherine McFarland

9:15 Determination of gonad reproductive state using non-lethal ultrasonography in endangered black (*Haliotis cracherodii*) and white abalone (*H. sorenseni*) **Sara E. Boles (Bodega Marine Laboratory, University of California, Davis)**, Laura Rogers-Bennett, Wendy K. Bragg, Jessica Bredvik-Curran, Suzanne Graham, & Jackson A. Gross

9:30 Integrating aquaculture to improve Olympia oyster restoration in the Elkhorn Slough, CA **Jacob Harris* (Moss Landing Marine Laboratories, San Jose State University)**, Luke Gardner, Amanda Kahn, Kerstin Wasson

9:45 Every Breath You Take: Siphon Visibility Of Puget Sound Wild Geoducks **Henry S. Carson (WA Dept. of Fish and Wildlife)** Bethany C. Stevick and Ocean Working

Conservation and Restoration Cont.

- 10:00** A Novel Social-Ecological Clam Garden Site Selection Process **Joe Williams (Swinomish Indian Tribal Community)**, Courtney M. Greiner, Julie S. Barber, Jamie Donatuto, Melissa Poe, James McArdle, Lindy Hunter, Michal Heidt
- 10:15** Baskets of cockles in fields of geoduck: Assessing *Clinocardium nuttallii* abundance in geoduck farms across Puget Sound **Ryan Crim (Puget Sound Restoration Fund)**, Emily Buckner, Elizabeth Unsell, Darbhi Durvasula, Hannah Garfield, Jodie Toft
- 10:30** **Break**
- 11:00** Watching from Above – Monitoring Eelgrass Habitats in Humboldt, Samish, and Willapa Bays **Phil Bloch (Confluence Environmental Company)**, Kelly McDonald, Whelan Gilkerson and Bobbi Hudson
- 11:15** Recovery mechanisms of eelgrass (*Zostera marina*) following dredging disturbance **Fiona Boardman* (University of Washington)**, Elena Subbotin, Jennifer Ruesink
- 11:30** Nekton Use of Seagrass (*Zostera Marina*) Habitat on Oyster Flip-bag Farms **Katie Houle (Pacific Shellfish Institute)**, Kalloway Page, Fiona Boardman, Jennifer Ruesink
- 11:45** Can coralline algae habitat bolster the climate resilience of Washington's endangered pinto abalone? **Eileen Bates* (University of Washington)**, Josh Bouma, Ryan Crim, Jodie Toft, Jacqueline Padilla-Gamino

Five Minute Lightning Talks

Riverside Room B, Moderated by: **Kalloway Page**

- 12:00** WDFW's Safeguard Our Shellfish Campaign **Nam Siu (WA Dept. of Fish and Wildlife)**, Katy Davis, Matt Hoehn, Chris Eardley;
- 12:05** An update on West Coast Shellfish Biosecurity Workshop Series **Chris Eardley (WA Dept. of Fish and Wildlife)**, Chris Langdon, Maria Haws;
- 12:10** Effect of Biofouling and Stocking Density on Microclimate in off-Bottom Oyster Culture Grow-Out Bags **Julianne Grenn* (Virginia Institute of Marine Science)** and William Walton
- 12:15** Is water temperature a critical factor dictating OsHV-1 SD Bay μ var infection and mortality rates in Pacific oysters? **Emily Kunselman* (Scripps Institution of Oceanography)**, Daysi Manrique, Zachary Daniel, Colleen Burge, Sarah Allard, Jack Gilbert;
- 12:20** Enhancing access to ocean data and information products from the Central and Northern California Ocean Observing System (CeNCOOS) to support well-informed shellfishery management **Marine Lebrech (Monterey Bay Aquarium Research Institute)**, Alex Harper
- 12:30** **Lunch Break/NSA Luncheon**

Outreach and Education

Riverside Room B, Moderated by: **Mary Elizabeth Bissell**

- 2:00** Seaweed farming in the classroom: educational materials **Kristin Jones (Pacific Northwest National Laboratory)**, Deborah Rose, Molly Grear, Ruth Branch, Candace Briggs
- 2:15** Washington Shellfish Perceptions: Survey Results Examining Messages and Attitudes in Shellfish Producing Counties **Brett Veerhusen (Ocean Strategies)**, Tyler Edgar

Wednesday, September 20th

Down on the Farm

Riverside Room B, Moderated by: **Nyle Taylor**

- 2:30** The effect of including *Nannochloropsis oculata* within mixed algal diet on growth and survival of Pacific oyster *Crassostrea gigas* larvae. **Zachary Kowash (Oregon State University)**
- 2:45** Quantifying Bed Quality: a Comparison of Oyster Yield Across Habitats and Growout Methods **Jennifer Ruesink (University of Washington)**, Fiona Boardman, Wesley Hull, Aspen Katla, Andy Suhrbier, Emma Beck, Katie Houle
- 3:00** Experiences With Experimenting with and Developing Floating Oyster Bags **Nyle Taylor (Taylor Shellfish Farms)**
- 3:15** Tidal Energy for Mariculture Operations **Candace Briggs (Pacific Northwest National Laboratory)**, Ruth Branch, Molly Gear, Debbie Rose, Kristin Jones
- 3:30** **Break**

Ecosystems and Best management Practices

Riverside Room B, Moderated by: **Craig Norrie**

- 3:45** Ecosystem-based management for community and industry resilience: collaboratively modeling Washington coastal estuaries **Nicole Naar (WA Sea Grant)**, Kate Litle, P. Sean McDonald, Ashleigh Epps
- 4:00** Do Oysters Reduce or Increase Transmission of Eelgrass Wasting Disease? **Lindsay Alma, PhD (University of California, Davis)**

Shellfish and Human Health

Riverside Room B, Moderated by: **David Fyfe**

- 4:15** Effects of the harmful alga *Cochlodinium* (aka *Margalefedinium*) polykrikoides on clearance rate of the hard clam, *Mercenaria mercenaria* **Darren de Silva (USDA-ARS)**, Christopher J. Gobler

NANOOS Update

Riverside Room B, Moderated by: **David Fyfe**

- 4:30** Providing ocean and coastal data access for Pacific Northwest Shellfish Growers with the NANOOS Visualization System **Rachel Wold (University of Washington)**, Jan Newton, Roxanne Carini, Nicholas Rome, Jonathan Allan, Troy Tanner, Charles Seaton, Michael Kosro

5:00 **Memorial Social Hour** • Pacific Room

6:00 **Awards Banques and Silent Auction** • Pacific Room

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Wednesday, September 20th

Workshops and Listening Sessions

Pacific Room

9:00 USDA Pacific Shellfish Research Unit Engagement Session - POGS Breeding **Program Update and Listening Session** USDA-ARS Pacific Shellfish Research Unit

10:30 Break

11:00 Workshop: Strengthening Research Support for Shellfish Health Management - OshV-1 and The West Coast Shellfish Industry **NOAA Fisheries Northeast Fisheries Science Center and CA Department of Public Health**

Virtual Farm Experience

Pacific Room

12:15 An oyster farm in your living room: Distant, Immersive, Virtual Education for Agriculture (DIVE4Ag) **Ford Evans (Oregon State University)**

12:30 Lunch Break/NSA Luncheon

Beyond Bivalves: Crab, Seaweed, and more

Riverside Room C, Moderated by: **Andy Suhrbier**

2:00 Toward the qualitative modeling of Dungeness crab for management and conservation in the South Puget Sound **Melanie Good* (University of Washington)**, P. Sean McDonald, Erendira Aceves Bueno, and Emily Buckner

2:15 Effects of climate change (warming and acidification) on bull kelp (*Nereocystis leutekana*) microscopic stages **Miranda Roethler* (University of Washington)**, Jacqueline Padilla-Gamino, Cinde Donoghue

2:30 The Impact of Temperature on the Nutritional Composition of Dulse (*Devaleraea mollis*) and its Influence on Juvenile Red Abalone (*Haliotis rufescens*) **Jackson Gross (Univeristy of California, Davis)**, Natalie Rizzo, and Sara Boles

2:45 A year in the life: Tracking post-larval cohorts of Dungeness crab in an estuarine system **Sarah Grossman (Swinomish Indian Tribal Community)**, Claire Cook, Julie Barber

3:00 Return of the Green: An update on the development of a seaweed recycling network **Emily Buckner (Puget Sound Restoration Fund)**, Hannah Garfield, Jodie Toft, Joth Davis, Bill Dewey, Duane Fagergren, Evie Fagergren, Betsy Peabody

3:30 Break

5:00 Memorial Social Hour • Pacific Room

6:00 Awards Banquet and Silent Auction • Pacific Room

A Special Thank You To:

Awards Banquet Sponsor



Thursday, September 21st

8:30 **Morning Coffee**

Labor Issues

Riverside room A, Moderated by: **Nicole Naar**

8:45 wafla update Enrique Gastelum (**wafla**)

9:15 Tide's Out: Proposed Washington Shellfish Crew and Manager Training **Teri King (Washington Sea Grant)**, Ashleigh Epps, Nicole Naar

The Nature Conservancy Program Updates

Riverside room A

9:30 TNC's Restorative Aquaculture Program Stories, Updates, and New Tools **The Nature Conservancy**

10:30 **Adjourn**

Policy/Ecosystem Management

Riverside room B, Moderated by: **Bobbi Hudson**

8:45 Taylor Shellfish Farms - Habitat Conservation Plan **Jesse DeNike (Plache & Carr)**, Samuel W. (Billy) Plache, Phil Bloch, Kelly McDonald, and Chris Cziesla

Integrated Pest Management

Riverside room B, Moderated by: **Bobbi Hudson**

9:00 Ecological impacts of the invasive European green crab (*Carcinus maenas*) in Washington **Ben Rubinoff (WA Sea Grant)**

9:15 What's Eating You: an Overview of Known Interactions and Impacts of The Invasive European Green Crab on Pacific Coast Shellfish Species. **Brian Turner (WA Dept. of Fish and Wildlife)**

9:30 Monitoring Recent Shifts in Burrowing Shrimp Populations in Coastal Estuaries: Are They Really New and Should a Shellfish Grower be Concerned? **Brett R Dumbauld (USDA-ARS)**, Brooke McIntyre, Nathaniel Lewis, Jennifer Ruesink, and Wesley Hull

9:45 IPM Update from WA Department of Agriculture **Laura Butler (WA Department of Agriculture)**

10:30 **Adjourn**

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Thank you for attending PCSGA & NSA's 77th annual shellfish conference and tradeshow, we look forward to seeing you all next year!